

METHODOLOGY FOR IMPROVING THE PERFORMANCE OF ASYNCHRONOUS DATA TRAFFIC OVER TDD/TDMA WIRELESS NETWORKS

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ABSTRACT

The present invention relates to a computer implemented system for transferring data over a master driven TDD/TDMA based wireless network characterized in that it operates with minimum delay in end-to-end transmission by including:

- means for achieving optimum time slot utilization by minimizing the number of baseband packets created for each Link layer packet, each baseband packet being of a size corresponding to one of a permitted set of capacities ' C_1, C_2, \dots, C_n ', and
- means for optimum sharing of bandwidth, higher link utilization and low baseband packet transmission queue occupancy by adaptive scheduling of the transmission of said baseband packets in said queues.

The invention also provides a method and computer program product for the above system.